

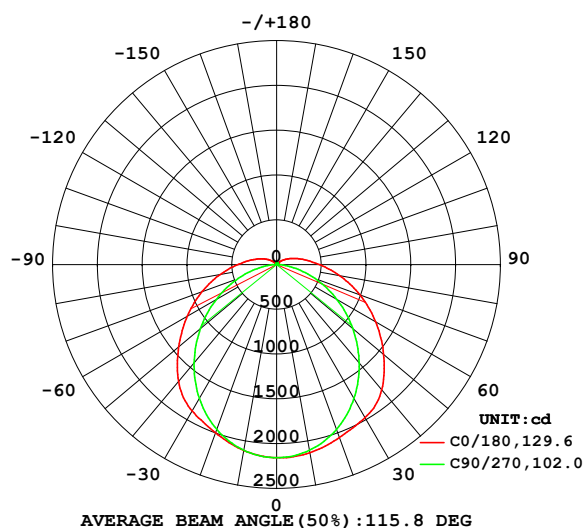


LUMINAIRE PHOTOMETRIC TEST REPORT

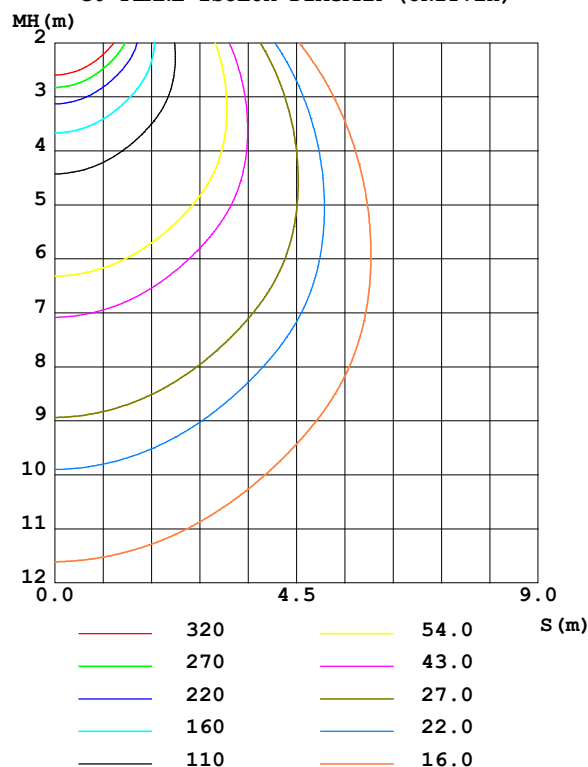
Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 160.00 lm/W			
MODEL		I _{max} (cd)	2158	S/MH(C0/180)	1.38
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)		TOTAL FLUX(lm)	7200.0	η UP,DN(C0-180)	3.6,45.3
NOMINAL FLUX(lm)	7200	CIE CLASS	DIRECT	η UP,DN(C180-360)	3.8,47.4
LAMPS INSIDE	1	η up (%)	7.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down (%)	92.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2107	2106	2133	2106					0- 10	203.8	203.8	2.83,2.83
20	1998	1957	2054	1958					10- 20	581.5	785.2	10.9,10.9
30	1888	1726	1974	1727					20- 30	883.1	1668	23.2,23.2
40	1704	1435	1827	1435					30- 40	1079	2748	38.2,38.2
50	1427	1111	1561	1111					40- 50	1122	3870	53.8,53.8
60	1151	779.4	1277	778.8					50- 60	1028	4899	68,68
70	886.3	457.4	989.8	456.3					60- 70	837.9	5736	79.7,79.7
80	639.5	172.8	714.2	170.6					70- 80	588.5	6325	87.8,87.8
90	435.2	16.80	479.2	17.59					80- 90	347.1	6672	92.7,92.7
100	296.1	11.90	319.8	12.38					90-100	214.3	6886	95.6,95.6
110	194.6	8.716	207.2	8.687					100-110	138.4	7025	97.6,97.6
120	117.5	10.52	123.3	10.15					110-120	83.78	7108	98.7,98.7
130	58.01	12.54	60.09	12.18					120-130	45.05	7153	99.4,99.4
140	20.82	14.53	20.93	14.27					130-140	19.63	7173	99.6,99.6
150	20.13	16.27	20.08	16.08					140-150	11.21	7184	99.8,99.8
160	19.71	17.66	19.68	17.63					150-160	8.521	7193	99.9,99.9
170	19.27	18.70	19.17	18.49					160-170	5.330	7198	100,100
180	19.14	19.23	19.12	19.15					170-180	1.812	7200	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 3313.2 lm

%lum = 46.0%

%lamp = 46.0%

Conical surface Flux(120deg): 4898.5 lm

%lum = 68.0%

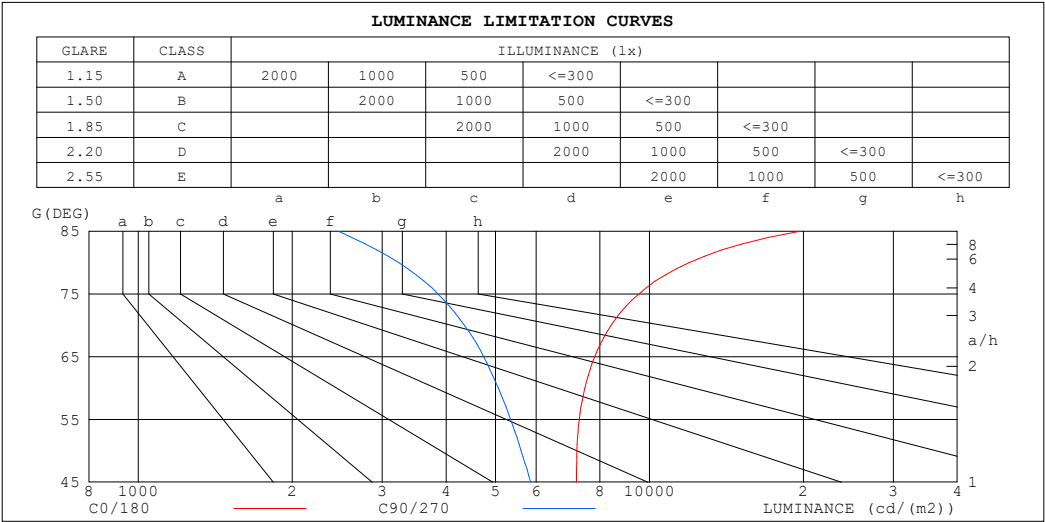
%lamp = 68.0%

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	19704	2464
80	11958	3231
75	9532	3857
70	8413	4342
65	7812	4735
60	7474	5061
55	7294	5348
50	7210	5611
45	7202	5855

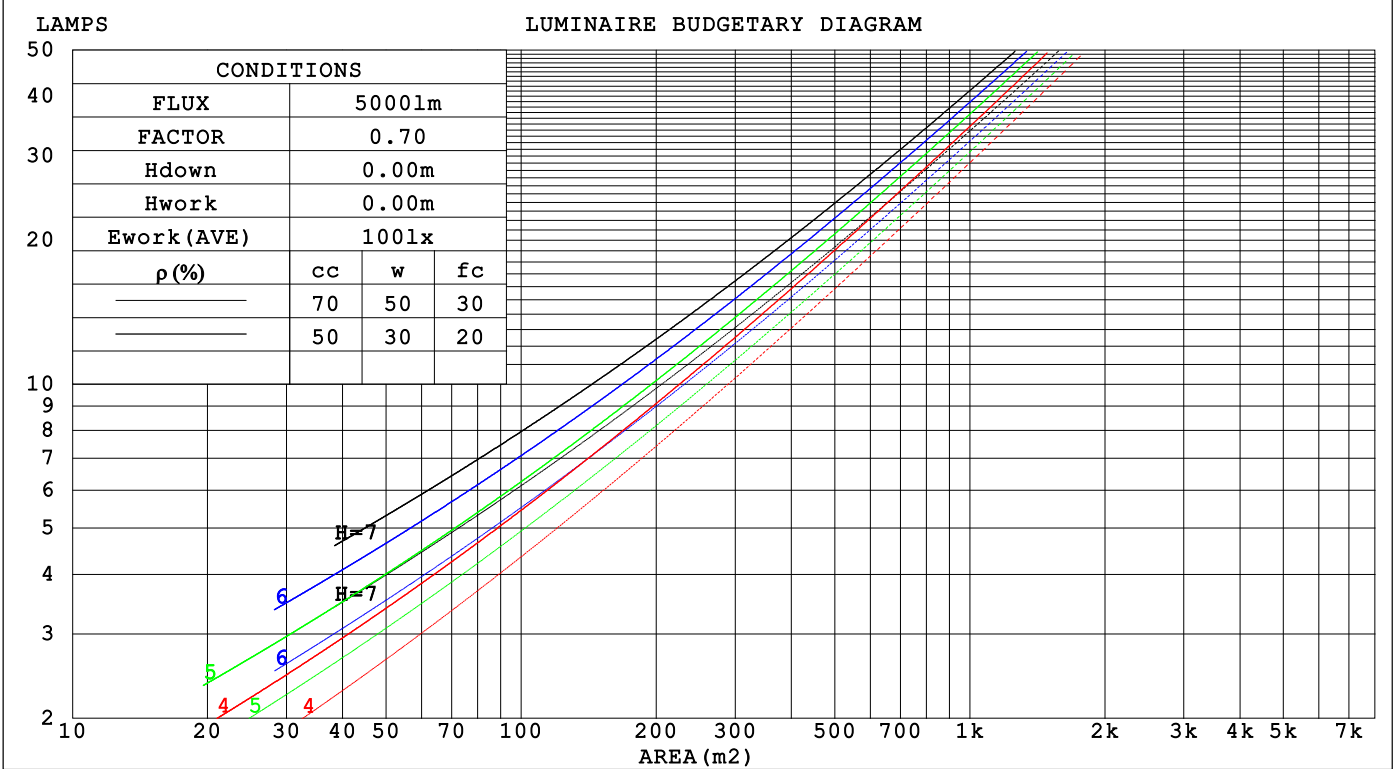
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz		
Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
p _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
p _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm					
NAME: 0028920278 3000K 45W 7200lm			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:		Shielding Angle:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.347	.197	.063	.338	.193	.061	.320	.184	.059	.304	.175	.056	.289	.167	.054		
2.0	.312	.171	.052	.303	.167	.051	.288	.160	.050	.273	.153	.048	.260	.147	.046		
3.0	.282	.150	.045	.275	.147	.044	.261	.141	.043	.248	.136	.042	.235	.130	.040		
4.0	.257	.134	.039	.250	.131	.039	.238	.126	.038	.226	.121	.037	.215	.117	.036		
5.0	.236	.120	.035	.230	.118	.034	.218	.114	.033	.208	.110	.033	.198	.106	.032		
6.0	.217	.109	.031	.212	.107	.031	.202	.103	.030	.192	.100	.029	.183	.096	.029		
7.0	.201	.100	.028	.197	.098	.028	.187	.095	.027	.179	.092	.027	.170	.089	.026		
8.0	.188	.092	.026	.183	.090	.025	.175	.087	.025	.167	.084	.024	.159	.082	.024		
9.0	.175	.085	.024	.171	.083	.023	.164	.081	.023	.156	.078	.022	.149	.076	.022		
10.0	.164	.079	.022	.161	.078	.022	.154	.075	.021	.147	.073	.021	.141	.071	.020		

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)										
0.0	.246	.246	.246	.211	.211	.211	.144	.144	.144	.083	.083	.083	.026	.026	.026		
1.0	.239	.212	.188	.205	.182	.162	.140	.125	.112	.081	.072	.065	.026	.023	.021		
2.0	.232	.189	.152	.198	.162	.132	.136	.112	.092	.078	.065	.054	.025	.021	.018		
3.0	.224	.171	.130	.192	.148	.112	.132	.103	.079	.076	.060	.046	.024	.019	.015		
4.0	.216	.158	.114	.185	.137	.099	.128	.095	.070	.074	.056	.041	.024	.018	.014		
5.0	.208	.148	.104	.179	.128	.090	.123	.090	.064	.071	.053	.038	.023	.017	.012		
6.0	.201	.140	.096	.173	.121	.084	.119	.085	.059	.069	.050	.035	.022	.016	.012		
7.0	.194	.133	.091	.167	.116	.079	.115	.081	.056	.067	.048	.033	.022	.016	.011		
8.0	.188	.128	.086	.161	.111	.075	.112	.078	.053	.065	.046	.032	.021	.015	.011		
9.0	.181	.123	.083	.156	.106	.072	.108	.075	.051	.063	.044	.031	.020	.015	.010		
10.0	.176	.118	.080	.151	.103	.070	.105	.072	.050	.061	.043	.030	.020	.014	.010		

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm										
NAME: 0028920278 3000K 45W 7200lm					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.:					SUR.:			Shielding Angle:		
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	19.3	20.8	19.7	21.1	21.5	18.0	19.4	18.3	19.8	20.1
3H	21.4	22.8	21.8	23.2	23.5	19.3	20.7	19.7	21.0	21.4
4H	22.6	23.8	23.0	24.2	24.6	19.8	21.1	20.3	21.5	21.9
6H	23.8	25.0	24.2	25.4	25.8	20.2	21.4	20.6	21.8	22.2
8H	24.4	25.6	24.9	26.0	26.4	20.3	21.4	20.7	21.8	22.3
12H	25.1	26.3	25.6	26.7	27.2	20.3	21.4	20.8	21.9	22.3
4H 2H	19.8	21.1	20.2	21.5	21.9	18.8	20.1	19.2	20.5	20.9
3H	22.1	23.3	22.6	23.7	24.2	20.4	21.5	20.8	21.9	22.4
4H	23.4	24.4	23.9	24.9	25.4	21.1	22.1	21.5	22.5	23.0
6H	24.8	25.7	25.3	26.2	26.7	21.6	22.5	22.1	23.0	23.5
8H	25.6	26.4	26.1	26.9	27.5	21.7	22.6	22.2	23.1	23.6
12H	26.5	27.3	27.0	27.8	28.3	21.8	22.6	22.4	23.1	23.7
8H 4H	23.7	24.5	24.2	25.0	25.6	21.7	22.5	22.2	23.0	23.6
6H	25.3	26.0	25.8	26.5	27.1	22.4	23.1	23.0	23.7	24.3
8H	26.2	26.9	26.8	27.4	28.0	22.7	23.4	23.3	23.9	24.5
12H	27.3	27.9	27.9	28.5	29.1	23.0	23.5	23.6	24.1	24.7
12H 4H	23.7	24.5	24.2	25.0	25.5	21.8	22.6	22.3	23.1	23.7
6H	25.3	26.0	25.9	26.5	27.2	22.7	23.4	23.3	23.9	24.5
8H	26.4	26.9	27.0	27.5	28.1	23.1	23.7	23.7	24.3	24.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 7200 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.9$)
Area: 0.308 m²

C Range: 0 - 360DEG

C Interval: 90.0DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:Testing Room

Test Date:2025-11-21

 γ Range: 0 - 180DEG γ Interval: 1.0DEG

Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:11.050m [K=1.0000]

Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

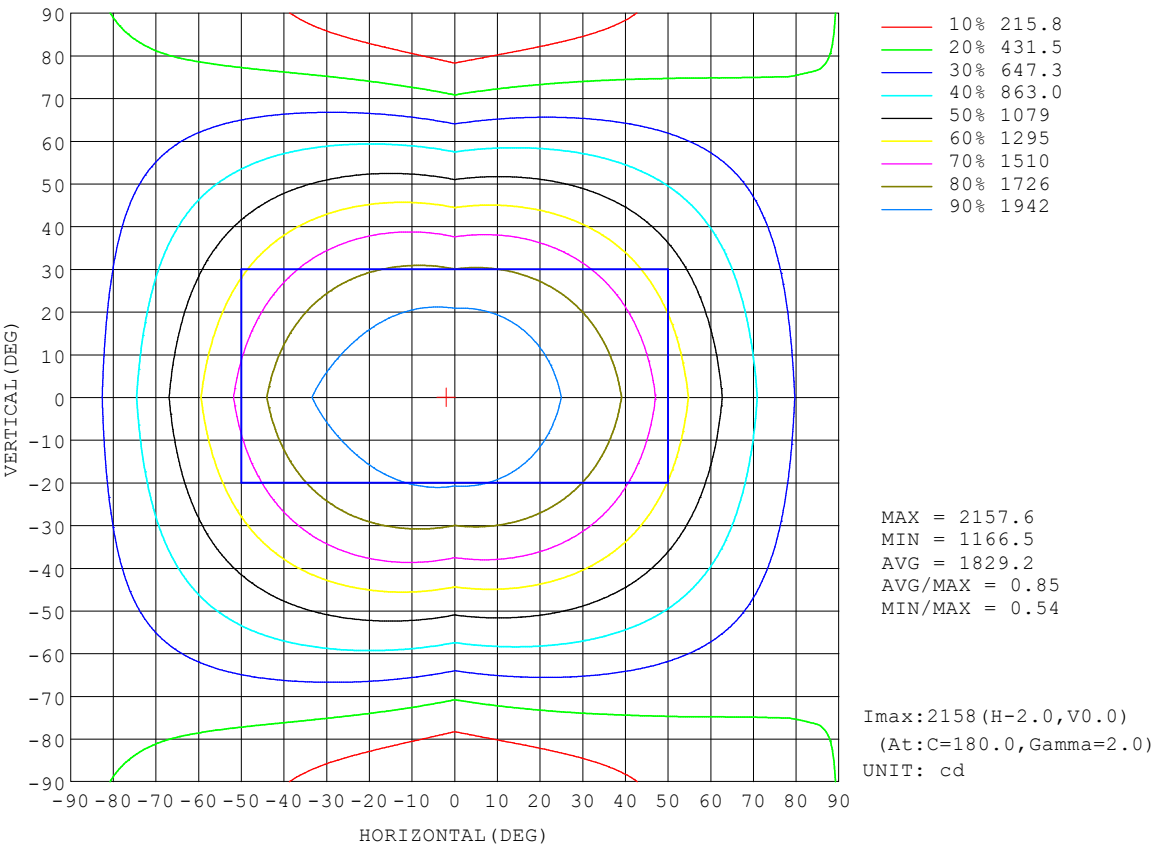
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	45	37	57	44	37	53	43	36	28
0.80	68	55	47	66	54	46	62	52	44	35
1.00	76	64	55	74	62	54	69	59	52	43
1.25	83	71	63	80	70	62	75	66	60	49
1.50	87	77	69	84	75	67	79	71	65	54
2.00	94	85	77	91	82	76	85	78	73	61
2.50	97	89	83	94	87	81	88	82	77	65
3.00	101	93	87	97	91	85	91	86	81	69
4.00	104	98	93	101	96	91	94	90	86	73
5.00	107	102	97	103	99	95	97	93	90	76
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Ceiling Mounted					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: Testing Room
 Test Date: 2025-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 11.050m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

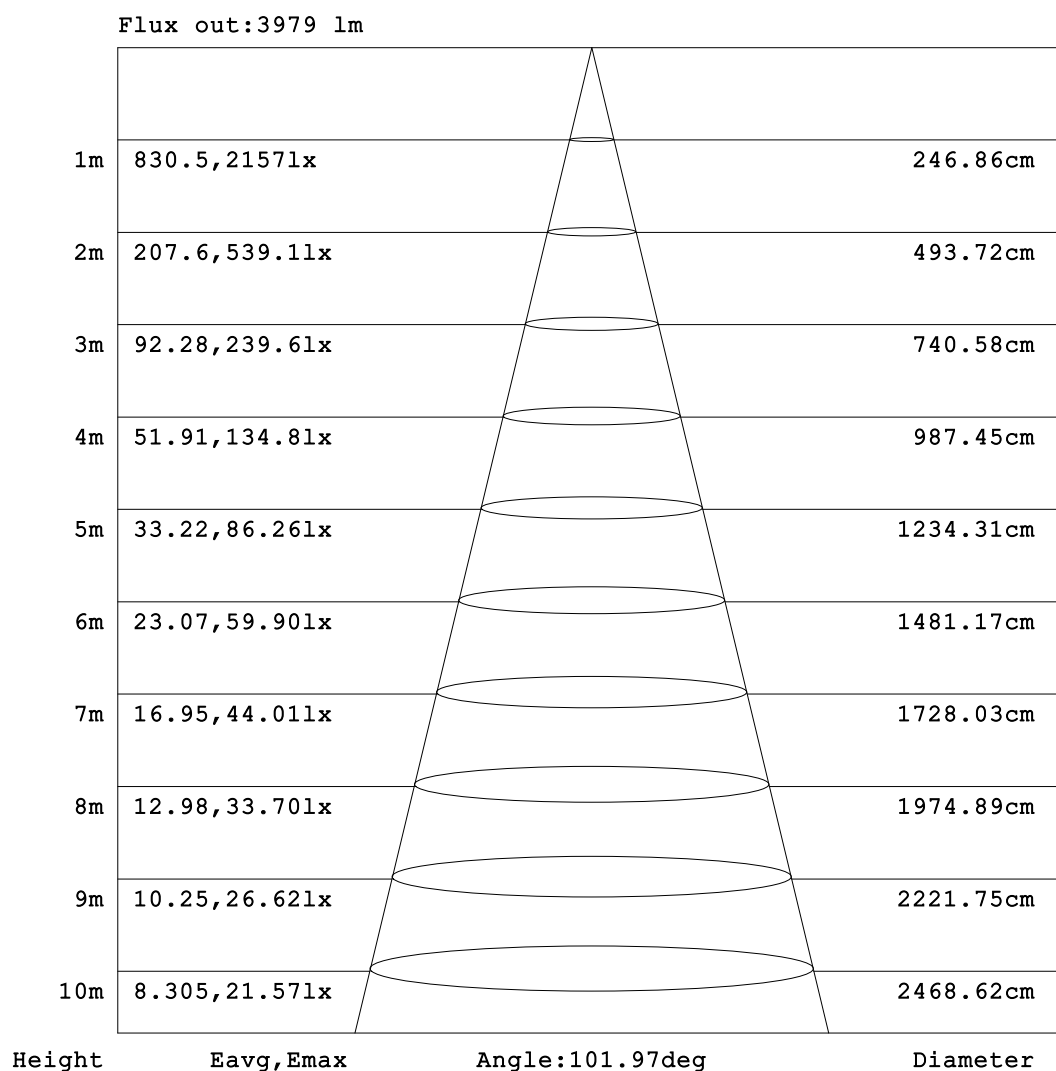
Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 90.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Temperature:25.3℃	Humidity:65.0%
Operators:Testing Room	Test Distance:11.050m [K=1.0000]
Test Date:2025-11-21	Remarks:

AAI Figure

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



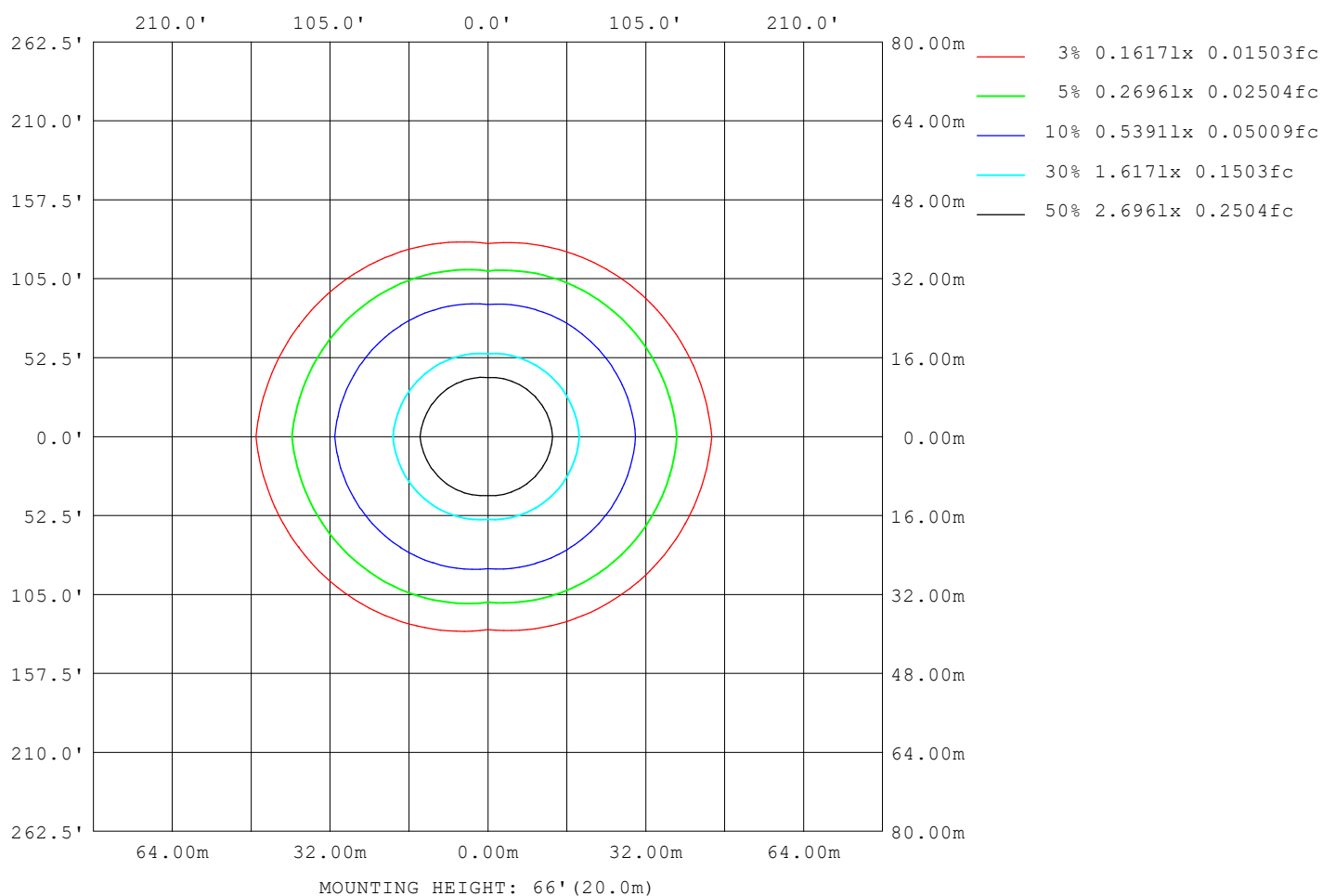
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:Testing Room
Test Date:2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: Testing Room
Test Date: 2025-11-21

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 11.050m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

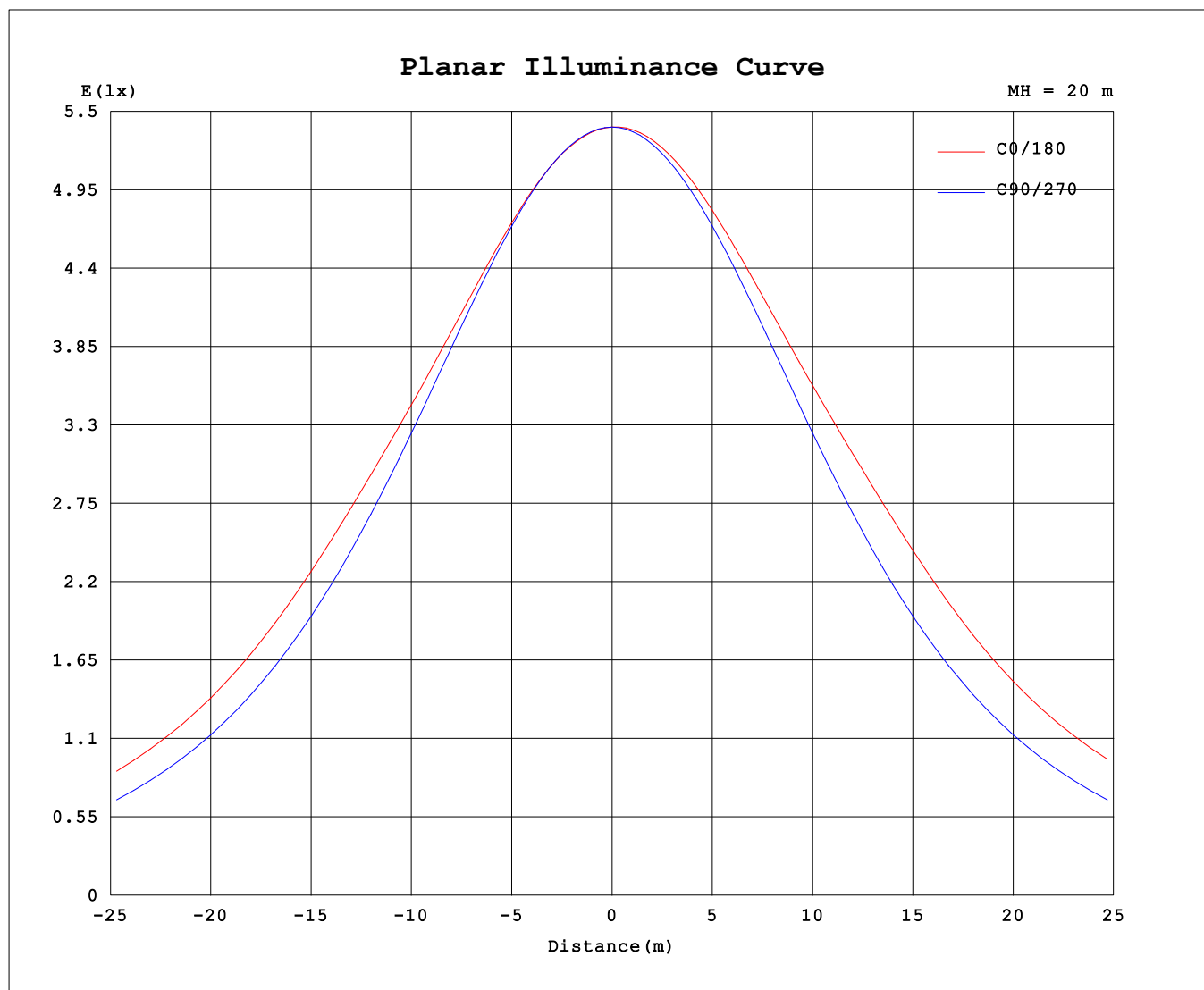
AvgL	cd/m2
L_0~180 (65) av	8264
L_0~180 (75) av	10095
L_0~180 (85) av	20803
L_90~270 (65) av	4730
L_90~270 (75) av	3849
L_90~270 (85) av	2437
L_45 (65) av	6084
L_45 (75) av	6226
L_45 (85) av	9393

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3℃
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:11.050m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: Testing Room
Test Date: 2025-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 11.050m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.00V I:0.2037A P:45.000W PF:0.9585 Freq:49.99Hz Lamp Flux:7200x1 lm		
NAME: 0028920278 3000K 45W 7200lm	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270														
0	2157	2157	2157	2157														
5	2141	2144	2154	2144														
10	2107	2106	2133	2106														
15	2057	2043	2098	2043														
20	1998	1957	2054	1958														
25	1942	1851	2012	1851														
30	1888	1726	1974	1727														
35	1814	1586	1922	1587														
40	1704	1435	1827	1435														
45	1569	1275	1700	1276														
50	1427	1111	1561	1111														
55	1288	945	1420	945														
60	1151	779	1277	779														
65	1017	616	1134	615														
70	886	457	990	456														
75	760	307	850	306														
80	640	173	714	171														
85	529	66.1	588	64.7														
90	435	16.8	479	17.6														
95	360	14.0	392	14.6														
100	296	11.9	320	12.4														
105	240	10.5	257	9.98														
110	195	8.72	207	8.69														
115	154	9.55	162	9.31														
120	117	10.5	123	10.2														
125	85.8	11.5	89.6	11.2														
130	58.0	12.5	60.1	12.2														
135	35.2	13.5	36.1	13.2														
140	20.8	14.5	20.9	14.3														
145	20.4	15.4	20.4	15.2														
150	20.1	16.3	20.1	16.1														
155	19.9	17.0	19.9	16.9														
160	19.7	17.7	19.7	17.6														
165	19.6	18.2	19.4	18.1														
170	19.3	18.7	19.2	18.5														
175	19.2	19.1	19.0	18.9														
180	19.1	19.2	19.1	19.1														

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:Testing Room
 Test Date:2025-11-21

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:11.050m [K=1.0000]
 Remarks: